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Title:
Perfect score:
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Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OM protein - protein search, using sw model
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Maximum DB seq length: 2000000000
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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                                                                                                                1: /SIDS6/gcgdata/geneseq/geneseqp/AA1980.DAT: *
2: /SIDS6/gcgdata/geneseq/geneseqp/AA1981.DAT: *
3: /SIDS6/gcgdata/geneseq/geneseqp/AA1981.DAT: *
4: /SIDS6/gcgdata/geneseq/geneseqp/AA1983.DAT: *
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382
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     390729 seqs, 57163235 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BLOSUM62
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Copyright (c) 1993 - 2000 Compugen Ltd.
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					COLUMNIA	
		æ				
Result No.	Score	Query Match	Query Match Length DB	DB	ID	Description
р :	382	100.0	71	20	Y07234	Truncated monocyte
ผ	382	100.0	71	20	Y07238	Truncated monocyte
ω	382	100.0	76	21	Y69031	Amino acid sequenc
4	382	100.0	77	21	B15786	Human chemokine MC
ر.	382	100.0	99	20	Y05300	C-C chemokine, MCP
6	382	100.0	99	20	Y07233	Wild type monocyte
7	382	100.0	99	20	Y07237	Wild type monocyte
æ	382	100.0	109	19	W42072	Human MC proprotei
9	378	99.0	109	18	W26655	Human beta-chemoki
10	359	94.0	77	20	Y14223	Chemokine hMCP2.
11	344	90.1	72	16	R70804	Chemoattractant MC

(24-Arg) MCP-1. H	R87676	16	76	62.3	238	5
) MCP-1.	R87678	16	69	٠	239	44
chemoatt	W13597	18	68	62.6	239	3
rg F	R06398	11	99	٠	242	42
A chemokine recept	Y69051	21	332	64.4	246	41
A chemokine recept	Y69050	21	327	64.4	246	40
A chemokine recept	Y69049	21	325	64.4	246	39
Human chemokine MC	B15785	21	99	64.4	246	38
Monocyte chemoattr	Y26176	20	99	64.4	246	37
Human prostate can	Y48391	20	99	64.4	246	36
Macrophage chemoat	W40174	19	99	64.4	246	35
Chemoattractant pr	R70800	16	99	64.4	246	34
Human monocyte che	R73914	16	99	64.4	246	33
MCF. Synthetic.	R28663	13	99	64.4	246	32
Human monocyte che	P95387	10	99	64.4	246	31
Mature MCP-1. Hom	R86859	16	77	64.4	246	30
Amino acid sequenc	¥69030	21	76	64.4	246	29
Human glioma cell	B12818	21	76	64.4	246	28
Macrophage chemoat	W40175	19	76	64.4	246	27
Mature human monoc	W11131	18	76	64.4	246	26
Monocyte chemotact	W09374	17	76	64.4	246	25
(3-Ala) MCP-1. Ho	R87677	16	76	64.4	246	24
Monocyte chemotact	R87680	16	76	64.4	246	23
MCF. Synthetic.	R28660	13	76	64.4	246	22
Peptide from human	P90292	10	76		246	21
che	W13596	18	69		246	20
A chemokine recept	Y69060	21	330		267	19
A chemokine recept	Y69059	21	325		267	8
A chemokine recept	. ¥69058	21	323		267	17
Human chemokine eo	в15794	21	97		267	16
Human eotaxin. Ho	W10099	18	97		267	15
Human eosinocyte C	W14990	18	97		267	4
eas ex	W00667	17	97	69.9	267	ω
Amino acid sequenc	Y69023	21	74	٠	267	12

## ALIGNMENTS

DR XX PT	PI	PA	PR	X PF	X PD	X P	X	SO	80	×××	X X	KW	ΚW	ΚW	×	X	DT	×	AC.	×	ID	RESULT Y07234
WPI; 1999-207108/18.  New amino-terminally truncated C-C chemokines have antagonistic	Proost P, Struyf S, Van Damme J;	(ISTF ) ARS APPLIED RES SYSTEMS HOLDING NV.	29-SEP-1997; 97EP-0116863.	29-SEP-1997; 97EP-0116863.	07-APR-1999.	EP906954-A1.		Synthetic.	Homo sapiens.	butilionary aracase, surin aractace.	tumour; anglogenesis; mematopolesis; autolimnume disease; atmetoscietosis; nilmonary disease, skin disorder	truncation; antagonist; medicaments; diagnosis; inflammation; infection;	regulated on activation normal T-cell expressed and secreted; RANTES;	Wild type; C-C chemokine; monocyte chemotactic protein 2; MCP2; HIV;	TIMICATED MONOCLES CHEMOCACCES PROCEET P (0 10).	Extracted more contraction protein 2 (6-76)	06-JUL-1999 (first entry)		Y07234;		Y07234 standard; protein; 71 AA.	ILT 1

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This sequence
                                   Claim 4; Fig 1; 29pp;
                                                                          New amino-terminally truncated C-C activity for treatment of immune,
 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This sequence represents a truncated C-C chemokine monocyte chemotactic protein 2 (MCP2) containing amino acids 6-76 of the mature protein. The invention relates the generation of amino-terminal truncated C-C chemokines, having chemokine antagonistic activity. The new chemokines are useful as medicaments, for diagnosis and/or treatment of diseases which require antagonistic activity of a chemokine e.g. inflammatory
                                                                                                                                                                    (ISTF ) ARS APPLIED RES SYSTEMS HOLDING NV
                                                                                                                                                                                            19-DEC-1997;
29-SEP-1997;
                                                                                                                                                                                                                                    10-MAR-1998;
                                                                                                                                                                                                                                                              31-MAR-1999
                                                                                                                                                                                                                                                                                                                                                     pulmonary disease;
                                                                                                                                                                                                                                                                                                                                                                 Wild type; C-C chemokine; monocyte chemotactic protein 2; MCP2; HIV; regulated on activation normal T-cell expressed and secreted; RANTES truncation; antagonist; medicaments; diagnosis; inflammation; infect tumour; angiogenesis; hematopoiesis; autoimmune disease; atheroscler
                                                                                                                                                                                                                                                                                                                                                                                                                               Truncated monocyte chemotactic protein 2 (6-76).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            diseases, HIV infection, tumours, and angiogenesis and immuneception related diseases, including auto-immune diseases, atherosclerosis, pulmonary diseases and skin disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim
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                                                                                                                                                                                                                                                                                                                ynthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HLDQIFQNLKP 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for
 (MCP2)
                                                                                                                                          Struyf S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ĀĀ;
            represents a truncated
                                                                                                                                                                                            97EP-0122471.
97EP-0116863.
                                                                                                                                                                                                                                  98EP-0104216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29pp;
containing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein;
                                                                                                                                                                                                                                                                                                                                                     skin disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                    English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     English.
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                                                                                                                                          Damme
 amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 382; DB 20; Pred. No. 1.2e-38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
ted C-C
acids 6
                                                                         inflammatory and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and angiogenesis- and hematopoiesis-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             inflammatory and infectious
                                                                                      chemokines have antagonistic
c chemokine monocyte chemotactic
6-76 of the mature protein.
                                                                                                                                                                                                                                                                                                                                                                 and secreted; RANTES;
inflammation; infection;
disease; atherosclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                            infectious
                                                                                                                                                                                                                                                                                                                                                                    atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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RESULT
Y69031
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                     A new therapeutic agent comprising a conjugate for treating tissue damage and other disease conditions like Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                         secondary tissue damage; central nervous system injury; MCP-2; CNS inflammatory disease; neurodegenerative disorder; heart disease; inflammatory bowel disease; inflammatory bowel disease; inflammatory joint disease; inflammatory kidney; renal disease; inflammatory lung disease; inflammatory nasal disease; inflammatory thyroid disease; thyroiditis; cytokine-regulated cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                are useful as medicaments, for diagnosis and/or treatment of diseases which require antagonistic activity of a chemokine e.g. inflammatory diseases, HIV infection, tumours, and angiogenesis- and hematopoiesis-related diseases, including auto-immune diseases, atherosclerosis, pulmonary diseases and skin disorders.
                                                                                                                               Disclosure; Page 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chemokine receptor; ligand; inflammatory
                                                                                                                                                                                                                                       McDonald JR,
                                                                                                                                                                                                                                                                (OSPR-) OSPREY PHARM LTD
                                                                                                                                                                                                                                                                                            22-JUL-1998;
                                                                                                                                                                                                                                                                                                                      21-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                 03-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                          WO200004926-A2
                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Amino acid sequence of chemokine receptor ligand MCP-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Y69031 standard; protein; 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates the generation of amino-terminal truncated C-C chemokines, having chemokine antagonistic activity. The new chemokines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hldqifqnlkp
                                                                                                                                                          Parkinson's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        71 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                      Coggins
                                                                                                                                                                                                                                                                                            98US-0120523
                                                                                                                                                                                                                                                                                                                      99WO-CA00659
                                                                                                                                                          disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                            204pp; English
                                                                                                                                                        and atherosclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 382; DB 20;
Pred. No. 1.2e-38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        response;
                                                                                                                                                                                                                                                                                                                                                                                                                          cytokine-regulated cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        immune effector cell;
                                                                                                                                                                      secondary disease,
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The present sequence represents a chemokine receptor ligand. The present ligand can be incorporated into the conjugates of the invention. The specification describes a conjugate, comprising a targeted agent and a chemokine receptor ligand. The conjugate binds to a chemokine receptor resulting in internalisation of the targeted agent in cells bearing the receptor. The conjugates are used for formulating a medicament or for treating disorders associated with inflammatory responses resulting from activation, proliferation and migration of immune effector cells. The disorders or disease states comprise secondary tissue damage such as

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RESULT
B15786
ID BJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                    New peptide 3, amide and heterocyclic compounds and saccharide conjugates used for inhibiting chemokine induced activity and for treating e.g. stroke, vascular diseases, autoimmune diseases and
                                                                                                                                      N-PSDB;
                                                                                                                                                                        Grainger DJ,
                                                       Example
                                                                                                                                                                                                                      01-DEC-1999;
                                                                                                                                                                                                                                 12-JAN-1999;
17-MAR-1999;
                                                                                                                                                                                                                                                                                          20-JUL-2000
                                                                                                                                                                                                                                                                                                                                                                                                                    Macrophage recruitment; chemokine derivative; MCP-1; osteoporosis; monocyte chemoattractant protein-1; inflammation; atherosclerosis; HIV; AIDS; stroke; psoriasis; autoimmune disease; hypertension; endotoxaemia; basophil mediated disease; myocardial infarction; acute ischaemia;
                                                                                                                                                                                              (NEOR-) NEORX
                                                                                                                                                                                                                                                                                                                 WO200042071-A2
                                                                                                                                                                                                                                                                                                                                                  Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human chemokine MCP-2 SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B15786;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B15786 standard; Protein;
                                                                                                                                                                                                                                                                  12-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                            rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytokine-regulated cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   neurodegenerative disorders, inflammatory bowel diseases,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           central nervous system (CNS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            66
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hldqifqnlkp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ad nervous system (CNS) injury, CNS inflammatory diseases, degenerative disorders, heart disease, inflammatory eye diseammatory bowel diseases, inflammatory joint diseases, inflammatory or renal diseases, inflammatory lung diseases, inflammatory diseases, inflammatory thyroid disease such as thyroiditis,
                                                                                                                                      A74886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                       Page
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                                                                                                                                                                                                                                                                   2000WO-US00821.
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99US-0271192.
99US-0452406.
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                                                       134;
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                                                      387pp; English
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Pred. No. 1.3e-38;
; Mismatches 0;
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The present invention concerns the identification of a number of chemokines which can be used to produce derivatives, agonists and antagonists which are then useful in disease treatment. The chemokines include sequences B15785-B15794, B15803-B15813 and B15831-B15848. These

These

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RESULT
Y05300
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the MCP2 sequence (this sequence). The new chemokines are useful as medicaments, for diagnosis and/or treatment of diseases which require antagonistic activity of a chemokine e.g. inflammatory diseases, HIV infection, tumours, and angiogenesis and haematopoiesis-related diseases. The invention also relates to the use of CD26/DPP IV for treatment of inflammatory, immune and infectious diseases, including autoimmune diseases, atherosclerosis, pulmonary diseases and skin
                                                                                                                                            This sequence represents the C-C chemokine MCP2. The invention relates to amino-terminally truncated C-C chemokines, having chemokine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C-C chemokine;
HIV infection;
                                                                                                                 26 to
                                                                                                                                                                                           Claim 4; Fig
                                                                                                                                                                                                                              diseases
                                                                                                                                                                                                                                          New amino-terminally truncated C-C activity, for treatment of immune,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       diseases, atherosclerosis, osteoporosis, HIV infection and AIDS, psoriasis, inflammatory diseases, hypertension, basophil-mediate diseases, endotoxaemia, myocardial infarction, acute ischaemia rheumatoid arthritis, and can be used to prevent strokes and as contraceptives. The coding sequences for the chemokines can be used therapy for the same diseases, as well as in the production
                                                                                                                                antagonistic
                                                                                                                                                                                                                                                                                         WPI; 1999-216695/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C-C chemokine; RANTES; MCP2; chemokine antagonist; inflammatory disease; HIV infection; tumour; angiogenesis-related disease; autoimmune disease; haematopoiesis-related disease; CD26/DPP IV; immune disease; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C-C chemokine,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  chemokine derivatives can be used to treat diseases such as autoimmune diseases, atherosclerosis, osteoporosis, HIV infection and AIDS, psoriasis, inflammatory diseases, hypertension, basophil-mediated
                                                                                                                                                                                                                                                                                                                         Proost P,
                                                                                                                                                                                                                                                                                                                                                      (ISTF ) ARS APPLIED RES SYSTEMS HOLDING
                                                                                                                                                                                                                                                                                                                                                                                       29-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               atherosclerosis; pulmonary disease; skin disorder; therapy
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                                                                                                           onistic activity. The truncated chemokines are specifically residues 91 of the RANTES sequence (see Y05299) or residues 29 to 99 of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                     97EP-0122471
                                                                                                                                                                                           30pp; English.
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Pred. No. 1.3e-38;
Mismatches 0;
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                                                                                                                                                                                                                                        chemokines have antagonistic inflammatory and infectious
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the production
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                                                                                                                                                                                         This sequence represents the wild type C-C chemokine monocyte chemotactic protein 2 (MCP2). The invention relates the generation of amino-terminal truncated C-C chemokines, having chemokine antagonistic activity. The
                                                                                                                                                                                                                                                                                                                                                           Proost P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              regulated on activation normal T-cell expressed and secreted; RANTES; truncation; antagonist; medicaments; diagnosis; inflammation; infection; tumour; angiogenesis; hematopoissis; autoimmune disease; atherosclerosis; pulmonary disease; skin disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wild type monocyte chemotactic protein 2.
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                                                                                             Sequence
                                                                                                                                 new chemokines are useful as medicaments, for diagnosis and/or treatment of diseases which require antagonistic activity of a chemokine e.g. inflammatory diseases, HIV infection, tumours, and angiogenesis and hematopolesis related diseases, including auto-immune diseases, and angiogenesis and thematopolesis related diseases, including auto-immune diseases,
                                                                                                                                                                                                                                                 Disclosure; Fig 1; 29pp; English
                                                                                                                                                                                                                                                                                      New amino-terminally truncated C-C chemokines have antagonistic activity for treatment of immune, inflammatory and infectious
                                                                                                                                                                                                                                                                                                                                                                                                              29-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wild type;
                                                                                                                        atherosclerosis, pulmonary diseases and skin disorders.
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                                                                                                                                                                                                                                                                                                                               7PI; 1999-207108/18.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C-C chemokine; monocyte chemotactic protein 2; MCP2; HIV;
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Pred. No. 1.7e-38;
                                          Score 382; DB 20;
Pred. No. 1.7e-38;
                               Mismatches
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                                                                                                                                                                                                                             This sequence represents the wild type C-C chemokine monocyte chemotactic protein 2 (MCP2). The invention relates the generation of amino-terminal truncated C-C chemokines, having chemokine antagonistic activity. The new chemokines are useful as medicaments, for diagnosis and/or treatment of diseases which require antagonistic activity of a chemokine e.g.
                                                                                                                                                                                        inflammatory diseases, HIV infection, tumours, and angiogenesis- and hematopoiesis-related diseases, including auto-immune diseases, atherosclerosis, pulmonary diseases and skin disorders.
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29-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wild type; C-C chemokine; monocyte chemotactic protein 2; MCP2; HIV;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Wild type monocyte chemotactic protein
                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                          Disclosure; Fig 1; 36pp; English.
                                                                                                                                                                                                                                                                                                                                            New amino-terminally truncated C-C chemokines have antagonistic activity for treatment of immune, inflammatory and infectious
                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-206774/18
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9
                         61 HLDQIFQNLKP
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                                                                        1 SIPITCCENVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWYRDSMK 60
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                                                {\tt sipitccfnvinrkipiqrlesytritniqcpkeavifktkrgkevcadpkerwvrdsmk}
hldqifqnlkp
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                                                                                                                Similarity
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97EP-0116863.
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99
                         71
                                                                                                                100.0%;
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                                                                                                    Score 382; DB 20; Pred. No. 1.7e-38; Mismatches 0;
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                                                                                                      Indels
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RESULT

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W42072
ID W42072 standard; Protein; 109 AA.

XX
AC W42072;
XX
DT 09-JUN-1998 (first entry)
XX
DE Human MC proprotein.
XX
KW Human monocyte chemotactic proprote
KW macrophage; diagnostic assay; body
autoimmune disease; AIDS; asthma; r
KW breast cancer; bladder.
XX
OS Homo sapiens.
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COGOGIEGE.
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The is a human monocyte chemotactic proprotein sequence. Its cDNA was first identified in Incyte clone 965517 from a breast cDNA library. Antisense nucleotides can be used to control human MCPP expression especially where it may lead to inappropriate monocyte or macrophage activity causing damage associated with allergic responses to organs such as the lungs. Antisense nucleotides and MCPP cDNA may be used in diagnostic assays of body fluids or biopsied tissues to detect expression levels of MCPP. MCPP cDNA may also be useful for treatment of disorders such as asthma, rheumatoid arthritis, NIDDM treatment of disorders such as asthma, rheumatoid arthritis.
   16-FEB-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                treatment of disorders such as asthma, rheumatoid arthritis, NIDDM or cancer of the breast or bladder. Human MCDP protein can be used to identify agonists, antagonists or inhibitors to modulate the activity of MCPP in allergic responses or autoimmune diseases such as AIDS.
                                                                     W26655 standard;
                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Pages 38-39; 53pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New human monocyte chemotactic proprotein - has homology to CC chemokine(s) useful for identifying agent for treating auto-immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; V09218.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1998-110529/10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (INCY-) INCYTE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             L5-JUL-1997;
                                                                                                                                                                99
                                                                                                                                                                                                61 HLDQIFQNLKP 71
                                                                                                                                                                                                                                   39
                                                                                                                                                                                                                                                                                                       Match 100.0%;
Local Similarity 100.0%;
les 71; Conservative (
                                                                                                           9
                                                                                                                                                                                                                            SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                            hldqifqnlkp 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    or allergic responses
                                                                                                                                                                                                                                                                                                                                                                                                109 AA;
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            96US-0683655
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                                                                       Protein; 109 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hillman JL;
                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                                                    Score 382; DB 15,
Pred. No. 1.9e-38;
Pred. No. 1.9e-38;
                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                       Length 109;
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                                                                                                                                                                                                                                                                                                                                                                                          Y14223
                                                                                                                                    RESULT
                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                               Matches
              Chemokine hMCP2
                                                                                                                                                                                                                                                                                                                                                                                                                             to an expression control sequence; (2) a recombinantly produced. H305 protein; and (3) a composition comprising an antibody which specifically reacts with the H305 protein. The H305 protein may be used in a composition for the treatment of a mammalian subject (claimed). It is thought to have chemokine activities and may therefore have an effect on chemotaxis or migration of blood cells. It may be useful for inhibiting viral replication, including replication of HIV, and may also be used for treatment of wounds and to raise monoclonal and polyclonal antibodies which specifically react with H305. Such antibodies may be used for therapy of certain tumours as they are capable of blocking the ligand binding of the H305 protein or may promote clearance of
                                                                         Y14223;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MCP-2. Its sequence was deduced from a claimed cDNA clone (see T91023) isolated from a human peripheral blood mononuclear cell cDNA library. Also claimed are: (1) a host cell, preferably mammalian, transformed with a H1306 polynucleotide operably linked
                                        29-JUL-1999 (first entry)
                                                                                                     Y14223 standard; peptide; 77 AA
                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                      the protein from the patient.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; Page 12-13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This protein comprises human beta-chemokine H1305, also known as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New human beta-chemokine, \rm H1305 and corresponding DNA - used in the treatment of viral infection, e.g. \rm HIV, and in wound healing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1997-372866/34.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lavallie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-JAN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-JAN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W09725427-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          virus infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      H1305; MCP-2; chemokine; human; chemoattractant; chemotaxis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human beta-chemokine H1305 (MCP-2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GEMY ) GENETICS INST INC
                                                                                                                                      10
                                                                                                                                                                                    99
                                                                                                                                                                                                                 61 HLDQIFQNLKP 71
                                                                                                                                                                                                                                                 39
                                                                                                                                                                                                                                                              1 SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                                                  |||||||||||
hldqifqnlkp 109
                                                                                                                                                                                                                                            sipitccfnvinrkipiqrlesytritniqcpkeavifktqrgkevcadpkerwvrdsmk 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ER,
                                                                                                                                                                                                                                                                                                                                                                                       109 AA;
                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  96US-0586395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97WO-US00379.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HIV;
                                                                                                                                                                                                                                                                                                                          99.0%;
98.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       therapy; wound healing; tumour; antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Racie
                                                                                                                                                                                                                                                                                                          1;
                                                                                                                                                                                                                                                                                                                          Score 378; DB 18;
Pred. No. 5.8e-38;
                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                       Length 109;
                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                          0
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RESULT 11
R70804
        ID R70804 standard; Protein; 72 AA XX AC R70804;
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                                                                                                                                                  Вþ
                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chemokine; immune response; monocyte chemoattractant protein-1; MCP-1; chemokine-induced activity; inflammatory response; vascular indication; haematopoietic cell-associated activity; tumour; coronary artery disease; myocardial infarction; unstable angina pectoris; atherosclerosis; asthma; vasculitis; lentiviral infection; low bone mineral density; suppressor; parasitic infection; autoimmune disease; psoriasis; wound healing; organ transplant rejection; rheumatoid arthritis; allergy; therapy; arachidonic acid pathway.
R70804;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This sequence represents the chemokine hMCP-2. The invention relates to chemokine peptides and mimetics, particularly derived from monocyte chemoattractant protein-1 (MCP-1). The chemokine peptides and variants and derivatives can inhibit or reduce or increase, or enhance chemokine-induced activity. They can be used for increasing or enhancing an inflammatory response, an immune response or haematopoletic cell-associated activity at a tumour site. They can also be used for preventing or inhibiting an indication associated with haematopoletic cells.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Grainger DJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                              disease, to suppress tumour growth in a vertebrate animal, to prevent treat psoriasis in a mammal, to enhance wound healing, to prevent or treat asthma, organ transplant rejection, rheumatoid arthritis or allergy. They can also be used to inhibit a product or intermediate in the arachidonic acid pathway and where leukotriene, thromboxane and/operostaglandin are inhibited and to prevent or inhibit an indication
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cell recruitment or histamine release from basophils or mast cells. They can also be used to modulate the chemokine induced activity of haematopoletic cells at a preselected physiological site, to treat a vascular indication, e.g. coronary artery disease, myocardial infarction, unstable angina pectoris, atherosclerosis, or vasculitis, lentiviral infection or replication (e.g. HIV), low bone mineral density, a parasitic infection in a vertebrate animal (e.g. malaria), an autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 1; Page 128; 208pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 1999-347124/29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-SEP-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W09912968-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New chemokine peptides and mimetics
                                                                                                                                                                                                                                                                                                                                                                                                                                               associated with elevated TNF-alpha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NEOR-) NEORX CORP.
                                                                                                                                                  67
                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                             Local
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                                                                                                                                                                                                                                                1 SIPITCCENVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                                   HLDQIFQNLKP 71
                                                                                                                                                                                                                            sipitccpnvinrkipiqrlesyrritniqcpkeavifktkrgkevcadpkerwvrdsnk 66
                                                                                                                                                hldqifqnlkp
                                                                                                                                                                                                                                                                                                           68;
                                                                                                                                                                                                                                                                                                           Similarity 95.
58; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                         77 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kanaly ST,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97US-0927939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO-US19052.
                                                                                                                                                                                                                                                                                                                             94.0%;
95.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tatalick LM;
                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                             Score 359; DB 20;
Pred. No. 7.4e-36;
                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                               Indels
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                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   purified heparanases, prepared under reducing conditions and activated with transglutaminase, are given in R70786-804. Most are prepared by reverse transcription of mRNA from activated he leukocytes, then cloning of the cDNA into pVL1392 baculovirus vector, and expression in Sf9 cells in the presence of reduced vector, and expression in Sf9 cells in the presence of reduced vector.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Screening for cpds. with anti-heparanase activity - by detecting inhibition of heparin or heparan sulphate degradation, potentially useful for treating arthritis, restenosis, cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chemoattractant; MCP-2; heparanase; heparin; heparan sulfate; arthritis; restenosis; cancer; wound healing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 13; Page 53; 60pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-JUL-1993;
13-OCT-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-FEB-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO9504158-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chemoattractant MCP-2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-AUG-1995 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         glutathione and dithiothreitol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 1995-082239/11.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JUL-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                            CNS inflammatory disease; neurodegenerative disorder; heart disease; inflammatory eye disease; inflammatory bowel disease;
                                                                                          Chemokine receptor; ligand; inflammatory response; immune effector cell; secondary tissue damage; central nervous system injury; ectaxin;
                                                                                                                                  Amino acid sequence of chemokine receptor ligand eotaxin.
                                                                                                                                                              30-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hoogwerf AJ,
                                       inflammatory
                                                                                                                                                                                                                  Y69023 standard;
                                                    inflammatory
                                                                                                                                                                                                                                                                                     62
                                                                                                                                                                                                                                                                                                               61 HLDQIFQNLKP 71
                                                                                                                                                                                                                                                                                                                                      1 SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                                                                                                                                                     | |||||||||
hkdqifqnlkp
                                                                                                                                                                                                                                                                                                                                                                                               67;
                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 72 AA;
                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                              (first entry)
                          thyroid disease; thyroiditis; cytokine-regulated cancer.
                                      joint disease; inflammatory kidney; renal disease; lung disease; inflammatory nasal disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ledbetter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               93US-0099866.
93US-0136117.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      94WO-US08207.
                                                                                                                                                                                                                  protein; 74 AA
                                                                                                                                                                                                                                                                                                                                                                                                           90.18;
                                                                                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                                                                                          Score 344;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                           1; DB 16;
4.3e-34;
                                                                                                                                                                                                                                                                                                                                                                                                                        Length 72;
                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence represents a chemokine receptor ligand. The present ligand can be incorporated into the conjugates of the invention. The specification describes a conjugate, comprising a targeted agent and a chemokine receptor ligand. The conjugate binds to a chemokine receptor resulting in internalisation of the targeted agent in cells bearing the receptor. The conjugates are used for formulating a medicament or for treating disorders associated with inflammatory responses resulting from activation, proliferation and migration of immune effector cells. The disorders or disease states comprise secondary tissue damage such as central nervous system (CNS) injury, CNS inflammatory type diseases, inflammatory diseases, inflammatory the diseases that the disease 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A new therapeutic agent comprising a conjugate for treating secondary tissue damage and other disease conditions like Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             stroke, Parkinson's disease and atherosclerosis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2000-182542/16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-JUL-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-JUL-1999;
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  16-FEB-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (OSPR-) OSPREY PHARM LTD
                                               22-AUG-1996
                                                                                           WO9625497-A1
                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                Pancreas-derived chemokine; PANEC-1; PANEC-2; diagnosis;
                                                                                                                                                                                                                                                          Pancreas expressed chemokine-1.
                                                                                                                                                                                                                                                                                                            02-MAY-1997
                                                                                                                                                                                                                                                                                                                                                                                                     W00667 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cytokine-regulated
                                                                                                                                                                                       inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        64 yldqksptpkp 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 HLDQIFQNLKP 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity es 47; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diseases,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Page 59;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Coggins PJ;
                                                                                                                                                                                       disease; cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      98US-0120523
96WO-US02225.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       inflammatory thyroid disease such as thyroiditis, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      66.28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              204pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                          97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 267; DB 21;
Pred. No. 7.5e-25;
3; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                        B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 74;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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W14990
         PT XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; eosinocyte; CC type; chemokine; eotaxin; calcium; skin; small intestine; agonist; screening; antagonist; inflammation; antibody; diagnosis; assay; disorder; asthma; allergy; atopic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 8; Page 28-29; 43pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleotide and protein sequences for human PANEC-1 and PANEC-2 useful in diagnosis and therapy of pancreatic diseases  \frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( 
Human CC chemokine (eotaxin) active on
screening for eotaxin (ant)agonist(s),
                                                                                                                                                                                                                                                                                                                                                                                                                                         28-FEB-1996;
05-OCT-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human eosinocyte CC type chemokine eotaxin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-DEC-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        W14990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB; T33527
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                                                                                                                                    N-PSDB; T62944.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-OCT-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           W14990 standard; Protein;
                                                                                                                                                                                  WPI; 1997-226168/20
                                                                                                                                                                                                                                                                    Harada S,
                                                                                                                                                                                                                                                                                                                                                       (SHIO ) SHIONOGI & CO LTD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         87 yldqksptpkp
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27 svpttccfnlanrkiplgrlesyrritsgkcpqkavifktklakdicadpkkwvqdsmk 86
                                                                                                                                                                                                                                                                    Kitaura M, Nakajima
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Pred. No. 1e-24;
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                                                  eosinocytes - useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 17;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           myasthenia gravis; juvenile onset diabetes; glomerulonephritis; autoimmune; thyroiditis; Bechet's; graft; rejection; transplantation; allograft; graft prosupport; cancer; leukocyte infiltration; reperfusion injury; atherosclerosis; haematologic malignancy; septic; endotoxic; shock; procymyositis; dermatomyositis; immunosuppression; immunodeficie
                                  23-JUN-1995;
                                                                                                                                                                                                                                                                                                                                                        nkylosing spondylitis; sclerosis; Sjorgen's; polymyositis; ermatcomyositis; bowel; anaphylaxis; drug; penicillin; cephalosporin; insect sting; Crohn's; ulcerative colitis; spondyloarthropathy; scleroderma; psoriasis; dermatosis; dermatitis; eczema; atopic; urticaria; necrotising; cutaneo vasculitis; myositis; fascitis; multiple sclerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence is the human eosinocyte, CC type chemokine, eotaxin, which increases calcium flux in human eosinocytes and is a human analogue of guinea pig eotaxin. The eotaxin was derived from human small intestine, and is a specific agonist for human CC type chemokine receptor 3. It may be used to screen potential agonists and antagonists, which may be useful as anti-inflammatories. An anti-eotaxin antibody may be useful in diagnostic assays for eotaxin, which is implicated in inflammatory discreases, e.g. asthma, other allergies and atopic skin
(LEUK-) LEUKOSITE INC
                                                                      21-JUN-1996;
                                                                                                          09-JAN-1997
                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rheumatoid arthritis; systemic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     accumulation; attraction; chemotaxis; diagnosis; prevention; treatment; disease; inflammation; allergy; asthma; rhinitis; hypersensitivity; lung; pneumonia; Loeffler's; syndrome; interstitial; ILD; idiopathic pulmonary fibrosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; eotaxin; eosinophil; chemoattractant; stimulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human eotaxin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W10099 standard; Protein; 97 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               inflammation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                                                                                                     radiation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AA;
                                   95US-0494093
                                                                       96WO-US10723.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27-28; 45pp; Japanese.
                                                                                                                                                                                                                                 therapy; chemotherapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               69.9%;
66.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13;
                                                                                                                                                                                                                                                                                                                                                                               urticaria; necrotising; cutaneous;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 267; DB 1
Pred. No. le-24;
                                                                                                                                                                                                                                 immunosuppression; immunodeficiency;
therapy; autoimmune; corticosteroid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lupus erythematosus; SLE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 97;
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                                                                                                                                      Matches
                                                                                                                                                             Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      scleroderma, psoriasis and inflammatory dermatoses (e.g. dermatitis, allergic contact dermatitis, eczema, atopic dermatitis, allergic contact dermatitis, urticaria and necrotising, cutaneous and hypersensitivity vasculitis), eosinophilic myositis and fascitis, multiple sclerosis, SIE, myasthenia gravis, juvenile onset diabetes, glomerulonephritis, autoimmune thyroiditis, Bechet's disease, graft rejection (e.g. in transplantation) including allograft rejection or graft versus host disease and cancers with leukocyte infiltration
                                                                                                                                                                                                                                                                                                                                    Degenerate primers based on the guinea pig eotaxin amino acid sequence were used for the reverse transcriptase polymerase chair reaction (RT-PCR) amplification of RNA isolated from inflamed, eosinophilic lung tissue obtained from Balb/c mice sensitised to ovalbumin. The amplification product was used as a probe to screen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of the skin or organs. The products can also be used to treat ot diseases or conditions requiring the inhibition of undesirable inflammatory responses, including reperfusion injury, atherosclerosis, certain haematologic malignancies, cytokine induced toxicity (e.g. septic or endotoxic shock), polymyositis, dermatomyositis, immunosuppression (e.g. in individuals with immunodeficiency syndromes such as AIDS, undergoing radiation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      idiopathic pulmonary fibrosis or ILD associated with rheumatoid arthritis, systemic supersolutions (SLE), ankylosing spondylitis, systemic sclerosis, Sjorgen's syndrome, polymyositis or dermatomyositis), systemic anaphylaxis or hypersensitivity responses, drug allergies (e.g. to penicillin and cephalosporins), insect sting allergies inflammatory bowel diseases (e.g. Crohn's disease and ulcerative colitis), spondyloarthropathies,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         therapy, chemotherapy, therapy for autoimmune disease or other therapy, such as corticosteroid therapy, which causes immunosuppression), immunosuppression due to (e.g. congenital)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rhinitis, hypersensitivity lung diseases or pneumonitis, eosinophilic pneumonias such as Loeffler's syndrome and chronic eosinophilic pneumonia, interstitial lung diseases (ILD) such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present sequence is human ectaxin (hE), an ecsinophil specific chemoattractant capable of stimulating ecsinophil accumulation and/or attracting ecsinophils (including chemotaxis). It can be used to develop products for the diagnosis, prevention of the diagnosis of the diagnosis.
                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                 a human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   deficiency (e.g in eotaxin) or infectious diseases such as parasitic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated human eotaxin gene diagnosis and treatment of e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treatment of hE associated diseases or conditions. The products can be used to treat inflammatory or allergic diseases and conditions,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      including respiratory allergic diseases (e.g. asthma, allergic
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  61 HLDQIFQNLKP 71
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                                          SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
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                                                                                                                                                                                                                                                                                                                 genomic library in vector EMBL3 SP6/T7 to obtain the hE
                                                                                                                                                        Similarity
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                                                                                                                                      Conservative
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                                                                                                                                      13;
                                                                                                                                                      Score 267; DB 1
Pred. No. 1e-24;
                                                                                                                                      Mismatches

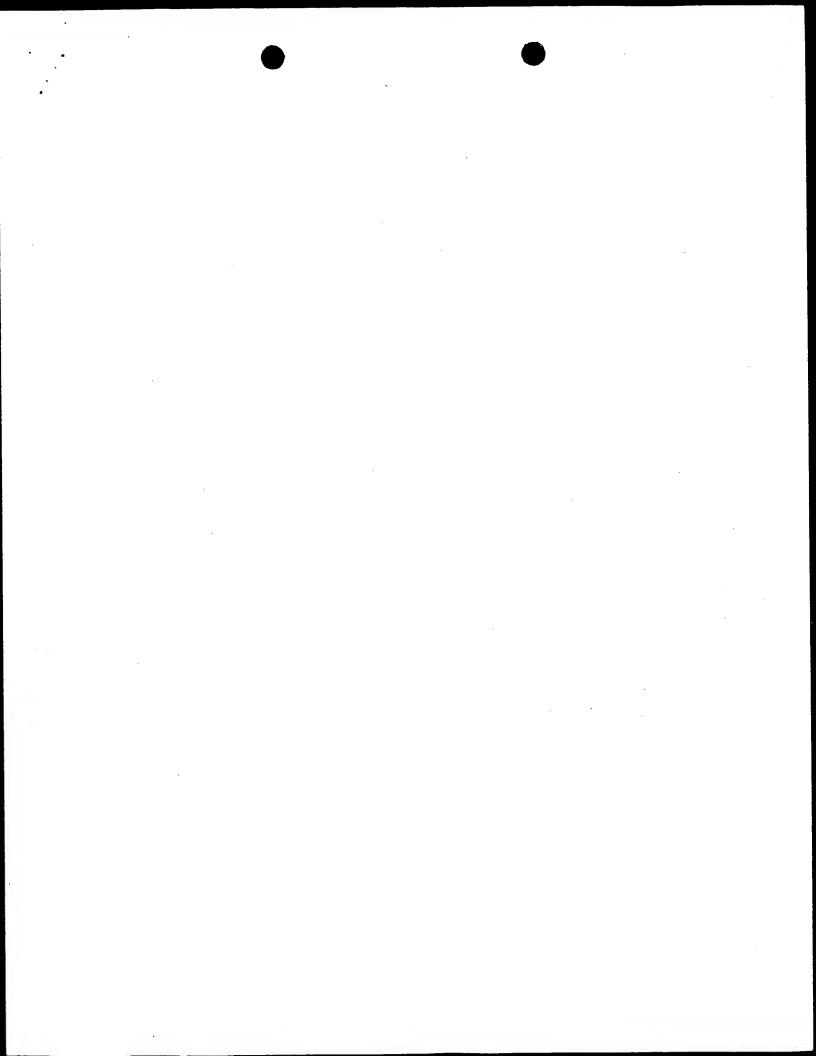
    used to develop prods. for the
inflammation, allergies, auto-immune

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Search completed: May 29, 2001, 13:55:12 Job time: 128 sec



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Result
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and is derived by analysis of the total score distribution.
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1: /cgn2_6/ptodata/2,
2: /cgn2_6/ptodata/2,
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Copyright (c) 1993 - 2000 Compugen Ltd.
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US-08-615-232A-6
US-08-4470-233-6
US-08-440-449-20
US-08-716-188-3
US-08-660-542-20
US-08-347-492B-9
US-08-347-492B-9
US-08-613-822-20
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US-08-250-958-1
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US-08-33-659-1
US-08-470-233-5
US-08-482-111-12
US-08-330-163-12
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Sequence 6, Appli
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RESULT 1  US-08-615-232A-6  Sequence 6, Appli Patent No. 599381  PATENT NO. 599381  APPLICANT: WI APPLICANT: HS  TITLE OF INVEN NUMBER OF SEQU CORRESPONDENCE ADDRESSE: STREET: 1100 CITY: ARLIN STATE: VIRG COUNTRY: UIRG COUNTRY COU	28 24 29 24 30 24 31 31 24 32 24 33 22 35 23 36 23 37 23 38 23 38 23 39 23 40 23 41 22 42 21 42 21 43 21 5
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ALIGN J. J. DAVID C CYT IC CYT AD, 8T +1.0, 115,232 100-32	US-07-927-391-24 US-08-995-156A-5 US-09-044-855A-5 US-09-044-855A-5 US-09-044-855A-5 PCT-US96-10087-5 S212073-2 US-08-613-822-1 US-08-615-232A-7 US-08-615-232A-7 US-08-421-144A-7 US-08-615-232A-2 US-08-615-232A-2 US-08-421-144A-9 US-08-615-232A-2 US-08-615-232A-2 US-08-615-232A-2 US-08-615-232A-2 US-08-615-232A-2 US-08-615-232A-2 US-08-615-232A-2
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(EPO)	Sequence 2 Sequence 5 Sequence 5 Sequence 5 Sequence 1 Sequence 1 Sequence 1 Sequence 1 Sequence 2 Sequence 3
	24, Appli 5, Appli 5, Appli 5, Appli 5, Appli 18, Appl 18, Appl 18, Appl 18, Appli 16, Appli 7, Appli 16, Appli 16, Appli 7, Appli 9, Appli 2, Appli 9, Appli

Query Match

100.0%;

Score 382;

DB 2;

Length 74;

Matches

US-08-470-323-6

GENERAL INFORMATION:

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FILE REFERENCE: 550-33
CURRENT APPLICATION NUMBER: US/08/470,323A
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: PCT/GB94/02006
EARLIER FILING DATE: 1994-09-14
EARLIER APPLICATION NUMBER: GB 9318984.3
EARLIER FILING DATE: 1993-09-14
EARLIER APPLICATION NUMBER: GB 94086902.2
EARLIER APPLICATION NUMBER: GB 94086902.2
                                                                                                                                                                                                                                                                                                                                                          Sequence 20, Application US/08480449 Patent No. 5688927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 6, Application US/08470323A Patent No. 6031080
                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: WILLIAMS, TIMOTHY J.
APPLICANT: JOSE, PETER J.
PLICANT: GRIFETIHS-JOHNSON, DAVID A.
PLICANT: HSUAN, JOHN J.
TITLE OF INVENTION: CHEMOTACTIC CYTOKINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 11
                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                             APPLICANT: Godiska, Ronald
APPLICANT: Gray, Pattick W.
TITLE OF INVENTION: MACROPHAGE DERIVED CHEMOKINE
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
                                                                                                                                           STREET: 6300 Second CITY: Chicago STATE: Illinois
                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   64 HLDQIFQNLKP 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 HLDQIFQNLKP 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         y Match 100.0%; Score 382; DB 3; Length 74; Local Similarity 100.0%; Pred. No. 2.3e-43; res 71; Conservative 0; Mismatches 0: Tridele
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                                                                                                                                                                                  E: Marshall, O'Toole, Gerstein, Murray & Borun 6300 Sears Tower, 233 South Wacker Drive
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PatentIn Release #1.0, Version #1.25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-716-188-3
Sequence 3, Application US/08716188
Patent No. 5908829
GENERAL INFORMATION:
APPLICANT: KELLY, RODNEY W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               В
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                                                   APPLICATION NUMBER: PCT/GB95/007
FILING DATE: 31-MAR-1995
PRIOR APPLICATION UNBER: GB 9406463.1
PILING DATE: 31-MAR-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                              SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                CLASSIFICATION: 530 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE P.C.
STREET: 1100 NORTH GLEBE ROAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: KELLY, RODNEY W
TITLE OF INVENTION: USE OF MCP-1 FOR INDUCING RIPENING OF
TITLE OF INVENTION: THE CERVIX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
                                                                                                                                                                                                                                                                                                                                                                                                                                 STREET: 110, CTTY: ARLINGTON
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:
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APPLICATION NUMBER: US/08/480,449
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/716,188 FILING DATE: 30-SEP-1996
                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
               NAME: SADOFF, B.J. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: U
REFERENCE/DOCKET NUMBER;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                66 HLDQIFQNLKP 76
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OTHER INFORMATION: "Hu MCP-2"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Gass, David A.
REGISTRATION NUMBER: 38,153
REFERENCE/DOCKET NUMBER: 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION:
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                                                                                                                                                                                                                       30-SEP-1996
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                                                                                                                                                               PCT/GB95/00733
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4 ۳ Matches Query Match Best Local 9 ; TYPE: PRT; ORGANISM: human US-08-470-323-6

SEQ ID NO 6

LENGTH: 74

US-08-480-449-20

SOFTWARE:

ZIP: COUNTRY:

ADDRESSEE:

TELECOMMUNICATION INFORMATION:

703-816-4091

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TELEPHONE:

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US-08-660-542-20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent No. 5932703
GENERAL INFORMATION:
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Best Local Similarity
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                                                                                                                                     NAME: Gass, David A.
REGISTRATION NUMBER: 38,153
REFERENCE/DOCKET NUMBER: 2786
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEPHONE: 312/474-0448
                                                                                                       TELEX: 25-3856
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 08/558,658
FILING DATE: 16-NOV-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/479,620
FILING DATE: 07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Godiska, Ronald
APPLICANT: Gray, Patrick W.
TITLE OF INVENTION: MACROPHAGE DERIVED CHEMOKINE AND CHEMOKINE
TITLE OF INVENTION: ANALOGS
                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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                                                                                      SEQUENCE CHARACTERISTICS:
 MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CITY: Chicago
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                  TOPOLOGY: lin
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                                                                   LENGTH:
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                                                  1: 76 amino acids amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        United States of America
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                  linear
peptide
                                 single
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; MOLECULE TYPE: pept:
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: GI 126829
US-08-347-492B-9
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 29-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/303,241
FILING DATE: 07-SEP-1994
APPLICATION NUMBER: 08/320,011
FILING DATE: 05-OCT-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                     TELEPHONE: 415-855-055
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Seilhamer, Jeffrey J.
TITLE OF INVENTION: EXPRESSED CHEMOKINES, THEIR
TITLE OF INVENTION: PRODUCTION AND USES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Wilde, Craig G. APPLICANT: Hawkins, Philli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: FastSEQ Vers
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 33,954
REFERENCE/DOCKET NUMBER: PF
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS: LENGTH: 77 amino acids
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Local Similarity 100.0%;
nes 71; Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/347,492B FILING DATE: 29-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER:
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STRANDEDNESS: si
                                                                                                                                                    TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                           Luther, Barbara
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: Incyte Pharmaceuticals, Inc
3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hawkins, Phillip R.
Bandman, Olga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     U.S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FastSEQ Version 1.5
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                                                                                                                                                    linear
                                                                                                                                                                                                                                                                          415-855-0555
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Pred. No. 2.4e-43;
Score 382; DB 1;
Pred. No. 2.4e-43;
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Query Match
Best Local Similarity

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US-08-798-143-9
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US-08-421-144A-6
                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 415-832 (1) NO: 6: INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS: FRACTH: 77 amino acids
                         Sequence 9, Application US/08798143 Patent No. 5936068 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                          Query Match
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        APPLICANT: , Wilde, Craig G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: 415-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: BANDMAN, OLGA
APPLICANT: COLEMAN, ROGER
APPLICANT: STUART, SUSAN (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: STUART, SUSAN G
TITLE OF INVENTION: NEW CHI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                          67 HLDQIFQNLKP 77
                                                                                                                                                                       61 HLDQIFQNLKP 71
                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/0 FILING DATE: 13-APR-1995 CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Luther, Barbara REGISTRATION NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                  TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: INCYTE PHARMACI STREET: 3174 Porter Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               67 HLDQIFQNLKP 77
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           71;
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                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                       amino acid
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                                                                                                                                                                                                                                                                                                                                                                                       linear
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                                                                                                                                                                                                                                                                                                                                                                         protein
                                                                                                                                                                                                                                                                                                                                                                                                        single
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                                                                                                                                                                                                                                                                                      100.0%; Score 382; DB 2; 100.0%; Pred. No. 2.4e-43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US/08/421,144A
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                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                     Length 77;
                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                    US-08-613-822-20
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                                                                                               Sequence 20, Application US/08613822 Patent No. 6174995 GENERAL INFORMATION:
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Matches
                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                            APPLICANT: Li, Haodong
TITLE OF INVENTION: Human Chemokine Polypeptides
NUMBER OF SEQUENCES: 20
                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IMMEDIATE SOURCE:
LIBRARY: GENBANK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION: TELEPHONE: 415-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 05-OCT-1994
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: FastSEQ Version 1.5
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Hawkins, Phillip R.
APPLICANT: Bandman, Olga
APPLICANT: Seilhamer, Jeffrey J.
TITLE OF INVENTION: EXPRESSED CHEMOKINES, THEIR
TITLE OF INVENTION: PRODUCTION AND USES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES:
ADDRESSEE: Human Genome Sciences, Inc. STREET: 9410 Key West Avenue
                                                                                                                                                                                                                   67 HLDQIFQNLKP 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Incyte Pharmace
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
                                                                                                                                                                                                                                                   61 HLDQIFQNLKP 71
                                                                                                                                                                                                                                                                                                                                                     Local Similarity les 71; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/3 FILING DATE: 07-SEP-1994 APPLICATION NUMBER: 08/3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 08/3 FILING DATE: 29-NOV-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/798,143 FILING DATE: 10-FEB-1997 CLASSIFICATION: 536
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Luther, Barbara REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                               TOPOLOGY: linear
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COMPUTER READABLE FORM: MEDIUM TYPE: Floppy

COUNTRY:

USA

Rockville

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US-07-956-862A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/07956862A Patent No. 5413778
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: KUNNEL,
APPLICANT: LYLE, LEON R.
APPLICANT: STRIETER, ROBERT M.
APPLICANT: STRIETER, ROBERT M.
TITLE OF INVENTION: LABELLED MONOCYTE CHEMOATTRACTANT
TITLE OF INVENTION: PROTEIN MATERIAL AND MEDICAL USES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/613,822
                                                                                                                                                                                              ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION: TELEPHONE: 301-309-8504
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NAME: Millstein, Larry S
REGISTRATION NUMBER: 34,
CLASSIFICATION: 424
ATTORNBY/AGENT INFORMATION:
NAME: REPPER, GEORGE R.
REGISTRATION NUMBER: 31.414
                                                                                                                      CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                          STREET: Suite /vi
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TOPOLOGY: lir
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CLASSIFICATION:
                                                                                APPLICATION NUMBER: FILING DATE: 05-OC'
                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                      STATE:
                                                                                                                                                                                                                                                                                                                                             ADDRESSEE:
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                                                                                                                                                                                                                                                                                  D. C
                                                                                                                                                                                                                                                                                                                        E: Rothwell, Figg, Ernst & Kurz Suite 701-E, 555 Thirteenth St., N.W
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                                                                              05-OCT-1992
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66.2%; Pred. No. 3.3e-28;
                                                                                                     US/07/956,862A
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US-08-250-958-1
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local Similarity
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TELEPHONE: (202)783-6031
TELEPAX: (202)783-6031
INFORMATION FOR SEQ. ID NO: 1:
                                                                                                                                        INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: LYLE, LEON R.
APPLICANT: KUNKEL, STEVEN L.
APPLICANT: STRIETER, ROBERT M.
APPLICANT: STRIETER, ROBERT M.
TITLE OF INVENTION: THERAPEUTIC TREATMENT FOR INHIBITING
TITLE OF INVENTION: VASCULAR RESTENOSIS
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HYPOTHETICAL: NO FRAGMENT TYPE: N-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: pep
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LENGTH: 76 amino acids
                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/965,678
FILING DATE: 22-OCT-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                            TELECOMMUNICATION INFORMATION: TELEPHONE: (202)783-6040
                                                                                                                      SEQUENCE CHARACTERISTICS:
       HYPOTHETICAL:
                         MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/0 FILING DATE: 27-MAY-1994 CLASSIFICATION: 514
                                                                                                                                                                                                                                   NAME: WALKER, Barbara W. REGISTRATION NUMBER: 35,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 20004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Washington STATE: D. C.
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                                         STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER:
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                                                                                                   LENGTH:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          44; Conservative
                                                                                 amino acid
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                                                                                                   76 amino acids
                                                                                                                                      (202)783-6031
----- TD NO: 1:
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                                             linear
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                                                                                                                                                                                                                                                                                                                                                                                      US/08/250,958
                                                                                                                                                                                                                                 35,400
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; FRAGMENT TYPE: N-terminal US-08-250-958-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 12
                                                 Query Match
Best Local Similarity
                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
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                                                                                                                                                                                                                                                 TELEFAX: (202)783-6031 INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                               REGISTRATION NUMBER: 35,400
REFERENCE/DOCKET NUMBER: 2077-205A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)783-6040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/235,659
FILLING DATE: 29-APR-1994
CLASSIFICATION: 424
                                                                                                                                   MOLECULE TYPE: FRAGMENT TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Lyle, Leon R.

APPLICANT: Kunkel, Steven L.

APPLICANT: Strieter, Robert M.

TITLE OF INVENTION: LABELLED CHEMOKINE MATERIALS AND
                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 07/95
FILING DATE: 05-0CT-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nence 1, Application US/08235659
                                                                                                                                                                                   TYPE: amino acid
STRANDEDNESS: no
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 07/956,862 FILING DATE: 05-OCT-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                 NAME: WALKER, Barbara W. REGISTRATION NUMBER: 35,
                                                                                                                                                                                                                LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 20004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             68 DKQTQTPK 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           63 DQIFQNLK 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
3 PITCCFĄVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMKHL 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         44;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            D. C.
                                                                                                                                                                                                              76 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E: Rothwell, Figg, Ernst & Kurz
Suite 701-E, 555 Thirteenth St., N.W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           U.S.A.
                                     Conservative
                                                                                                                                                                    linear
                                                                                                                                 peptide
N-terminal
                                                                                                                                                                                 not relevant
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDICAL USES THEREOF
                                                 64.4%; Score 246; DB 1 64.7%; Pred. No. 2e-25;
                                                                                                                                                                                                                                                                                                                                                                                                  07/956,863
                                   10;
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                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                DB 1; Length 76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 76;
                                   14;
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                                  Indels
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                                Gaps
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RESULT 14
US-08-615-232A-5
; Sequence 5, Application US/08615232A
; Patent No. 5993814
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US-08-716-188-2
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                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: KELLY, RODNEY W
TITLE OF INVENTION: USE OF MCP-1 FOR INDUCING RIPENING
TITLE OF INVENTION: THE CERVIX
                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 31-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9406463.1
FILING DATE: 31-MAR-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION: TELEPHONE: 703-816-4091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 22201
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB95/00733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                      Local Similarity 64.7 nes 44; Conservative
                                                                                                                                                                                                                                                                                                                                   STRANDEDNESS:
TOPOLOGY: li
                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: 703-6-
TELEPHONE: 703-816-4100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/716,188 FILING DATE: 30-SEP-1996
                                                                                              68 DKQTQTPK 75
                                                                                                                           63 DQIFQNLK 70
                                                                                                                                                                                                                                                                                                                                                                   TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 36
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                 LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY:
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                                                                                                                                                            8 PYTCCYNFTNRKISVQRLASYRRITSSKCPKEAVIFKTIVAKEICADPKQKWVQDSMDHL 67
                                                                                                                                                                          ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ARLINGTON
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                                                                                                                                                                                                                                                                                                                                                                                     76 amino acids
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                                                                                                                                                                                                                                                                                                                                      linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Floppy disk
                                                                                                                                                                                                                                                                                                                    peptide
                                                                                                                                                                                                                     64.4%; Score 246; DB 2; L
64.7%; pred. No. 2e-25;
10. Mismatches 14;
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GENERAL INFORMATION:

APPLICANT:

WILLIAMS, TIMOTHY J.

JOSE, PETER J.

GRIFFITHS-JOHNSON, DAVID A.

TITLE OF INVENTION:

HSUAN, JOHN J

CHEMOTACTIC CYTOKINE

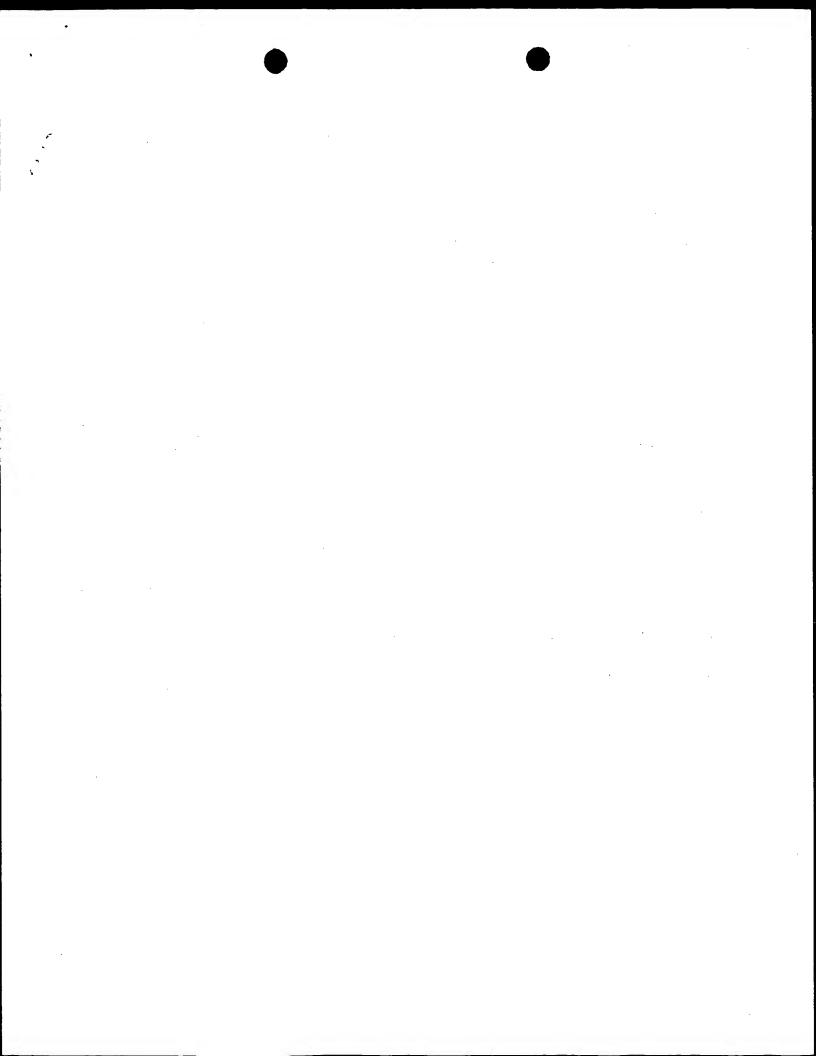
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US-08-470-323-5

; Sequence 5, Application US/08470323A
; Patent No. 6031080
; GENERAL INFORMATION:
; APPLICANT: WILLIAMS, TIMOTHY J.
; APPLICANT: JOSE, PETER J.
; APPLICANT: GRIFFITHS-JOHNSON, DAVID A.
; APPLICANT: HSUAN, JOHN J.
; APPLICANT: HSUAN, JOHN J.
                                                                                                                                                                                                                                                                                                                                                          밁
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                                                                                                                                                                                                                                                                                              RESULT 15
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ATTORNEY/AGENT INFORMATION:
NAME: WILSON, MARY J.
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 550-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEPAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 5:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
FILE REFERENCE: 550-33
CURRENT APPLICATION NUMBER: US/08/470,323A
CURRENT FILING DATE: 1995-06-06
EARLIER APPLICATION NUMBER: PCT/GB94/02006
EARLIER FILING DATE: 1994-09-14
                                                                                                     TITLE OF INVENTION: CHEMOTACTIC CYTOKINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 76 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9318984
FILING DATE: 14-SEP-1993
APPLICATION NUMBER: GB 9408602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY: U.S.A.
ZIP: 22201-4714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: 1100 NOI
CITY: ARLINGTON
STATE: VIRGINIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/08/615,232A FILING DATE: 13-AUG-1996
                                                                                                                                                                                                                                                                                                                                                        68 DKQTQTPK 75
                                                                                                                                                                                                                                                                                                                                                                                                63 DQIFQNLK 70
                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     44; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              E: NIXON & VANDERHYE P.C.
1100 NORTH GLEBE ROAD, 8TH FLOOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      64.4%; Score 246; DB 2 64.7%; Pred. No. 2e-25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 550-32
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; SEQ ID NO 5; LENGTH: 76; TYPE: PRT; ORGANISM: human US-08-470-323-5
 Вb
                          δõ
                                                      DЪ
                                                                                             Query Match
Best Local Similarity
``~+~hes 44; Conserva
                                                                                                                                                                                                                                                  EARLIER APPLICATION NUMBER: GB 94086902.2
EARLIER FILING DATE: 1994-04-29
NUMBER OF SEQ ID NOS: 11
                                                                                                                                                                                                                                                                                            EARLIER APPLICATION NUMBER: GB 9318984.3 EARLIER FILING DATE: 1993-09-14
68 DKQTQTPK 75
                          63 DQIFQNLK 70
                                                      Conservative
                                                                                                                         64.4%; Score 246; DB 3; Length 76; 64.7%; Pred. No. 2e-25;
                                                                                                              10;
                                                                                                              Mismatches
                                                                                                            Indels
                                                                                                              <u>.</u>
                                                                                                           Gaps
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Search completed: May 29, 2001, 13:55:34 Job time: 110 sec



GenCore version Copyright (c) 1993 - 2000 4.5 Compugen Ltd.

Run on: May 29, 2001, 13:54:05; Search time 21.3 Seconds (without alignments) 229.076 Million cell updates/sec OM protein - protein search, using sw model

Title: Perfect score: US-09-537-859-3 382

Sequence: 1 SIPITCCFNVINRKIPIQRL.....ERWVRDSMKHLDQIFQNLKP 71

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 198801 segs, 68722935 residues

number of hits satisfying chosen parameters:

198801

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : PIR\_67:\* pir1:\*
pir2:\*
pir3:\*
pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

	Score	% Query Match	Length	DВ		ription
1	378	99.0	99	2	JC5295	monocyte chemotact
N	273	71.5	99	N	JC2417	chemoatt
ω	270	70.7	97	N	JC4912	eotaxin precursor
4	246	64.4	99	N	A60299	monocyte chemoattr
5	237	62.0	99	N	JC2136	
6	233	۲.	109	ν	A54678	monocyte chemotact
7	219	7.	96	N	I48099	eotaxin precursor
œ	212	5	96	N	JC2478	eotaxin precursor
9	210	5	72	N	A55984	monocyte chemotact
10	208		99	μ.	A39296	monocyte chemoattr
11	208		99	Ν	JC2336	monocyte chemoattr
12	207		148	μ	A30209	PDGF-inducible JE
13	206	53.9	125	٥,	I46857	monocyte chemoattr
1.4	207	٠.	140	⊣ د	50//23	
1 5		٠,	10	ه د	140000	
170	140.0	٥.	9 4	ه د	D35673	monocyce cycoxene
18	142.5	7 !	92	N I	A30574	macrophage inflamm
19	138.5	•	92	1	A31767	
20	136.5	5	92	N	I46730	immune activation
21	130.5	٠	92	N	C30552	macrophage inflamm
22	129	33.8	92	N	152322	
23	128	ω.	92	2	A32393	ij
24	127.5	ω	114	_	ETHUL	lymphotactin precu
25	121.5	31.8	91	Н	A28815	monocyte chemoattr
26	118.5	1.	114	<b></b> 4	ETMSL	lymphotactin precu
27	116.5	0	91	ш	A46539	monocyte chemoattr
28	116	30.4	120	N	JE0177	lymphocyte and mon
29	113.	29.6	96	2	A37236	I-309 protein prec

Qy DЬ

61 HLDQIFQNLKP 71

89

HLDQIFQNLKP 99

N

monocyte chemoattractant protein-2 precursor - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Species: Sus scrofa domestica (domestic pig)
C;Apecies: Office (domestica (domestic pig)
C;Apecies: Office (domestica (domestic pig))
C;Apecies: Office (domestica (domestic pig))
C;Apecies: Office (domestica (domestic pig))
C;Apecies: Office (domestic pig)
R;Hosang, K; Knoke, I; Klaudiny, J.; Wempe, F.; Wuttke, W.; Scheit, K.H.
Blochem. Biophys. Res. Commun. 205, 148-153, 1994
A;Title: Porcine luteal cells express monocyte chemoattractant protein-2 (MCP-2): Ana
A;Reference number: JC2417; MUID:95091716

A;Molecule type: mRNA A;Residues: 1-99 <HOS> A;Crossidues: 1-99 <HOS> A;Cross references: GB:248480; NID:g683718; PIDN:CAA88371.1; PID:g683719 A;Experimental source: corpus luteum

44	43	42	41	40	39	38	37	36	35	34	$\omega$	32	31	30
66 66	71.5	71.5	71.5	72	75	77	79	85	85	85	85	96	104	110
17.3 17.3	18.7	18.7	18.7	18.8	19.6	20.2	20.7	22.3	22.3	22.3	22.3	25.1	27.2	28.8
114 132	459	459	117	101	99	101	95	103	103	101	101	116	50	92
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A55010 A57325	T44014	T44201	B44253	148148	A37034	146871	JN0841	A53096	A44253	146997	S42496	I49555	C60407	S24236
neutrophil-activat C-X-C chemokine LI	tegument pp65/72k,	hypothetical prote	alveolar macrophag	Neutrophil attract	interleukin-8 prec	interleukin-8 - ra	interleukin-8 - do	interleukin-8 prec	alveolar macrophag	interleukin-8 - sh	interleukin 8 - sh	gene C10 protein -	monocyte adherence	TCA3 protein - mou

## ALIGNMENTS

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C;Species: Homo sapiens (man)
C;Date: 20-Feb-1993 #sequence_revision 20-Feb-1993 #text_change 16-Jul-1999
C;Accession: A35474; A33476; S03339; I51841; A60299; A32300; A32396; A34561; I574
R;Shyy, Y.J.; Li, Y.S.; Kolattukudy, P.E.
Biochem. Biophys. Res. Commun. 169, 346-351, 1990
A;Title: Structure of human monocyte chemotactic protein gene and its regulation
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F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-99/Product: monocyte chemoattractant protein-2 #status predicted <WAT>
                     A;Cross-references: GB:M37719; NID:g187447; PIDN:AAA18102.1; R;Rollins, B.J.; Stier, P.; Ernst, T.; Wong, G.G. Mol. Cee. Biol. 9, 4687-4695, 1989
                                                                                                                                                                                                                                                                                                                monocyte chemoattractant protein 1 precursor - human N;Alternate names: GDCF-1; glioma-derived monocyte chemotactic factor 1; MCAF; MCP-1; mcN;Contains: glioma-derived chemotactic factor 2 (GDCF-2)
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A; Title
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A; Residues: 1-99 <SHY>
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A; Residues: 1-97 <BAR>
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A;Title: Human dermal fibroblasts express eotaxin: Molecular cloning, mRNA expression, A;Reference number: JC4912; MUID:96374440
A;Accession: JC4912
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Date: 01-Nov-1996 #sequence_revision 01-Nov-1996 #text_change 20-Jun-2000
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                  A; Molecule type: mRNA
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24-28,'Q',30-99 <YEQ>
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A:Molecule type: protein
A:Residues: 29-33,'XX',36-52;82-92 <DEC>
R:Li, Y.S.; Shyy, Y.J.; Wright, J.G.; Valente, A.J.; Cornhill, J.F.; Kolattukudy,
Mol. Cell. Biochem. 126, 61-68, 1993
A:Title: The expression of monocyte chemotactic protein (MCP-1) in human vascular
A:Reference number: 157488; MUID:94150478
                                                                                                    A;Cross-references: GB:S69738; NID:g545464; PIDN:AAB29926.1; R;Ye, Q.N.; Su, G.F.; Yuan, Y.; Huang, C.F. Chinese J. Microbiol. Immunol. 14, 29-32, 1994
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A;Title: Identification of the monocyte chemotactic protein from ha;Reference number: A34561; MUID:90211336
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A;Title: Complete amino acid sequence of a human monocyte chemoattractant, A;Reference number: A32396; MUID:89184525
A; Reference number: JC1096
A; Accession: JC1096
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Blochem. Blophys. Res. Commun. 159, 249-255, 1989
Blochem. Eloning and sequencing of the cDNA for human
A; Reference number: A32300; MUID:89165862
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A;Accession: I51841
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A;Experimental source: glioma cell line U-105MG
R;Yoshimura, T.; Leonard, E.J.
Adv. Exp. Med. Biol. 305, 47-56, 1991
A;Title: Human monocyte chemoattractant protein-1 (MCP-1).
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A;Accession: A33476
A;Molecule type: mRNA
A;Residues: 1-99 <ROL>
                                                                        A; Title: The PCR, cloning and sequencing of human monocyte
                                                                                                                                                                                                         A; Molecule type: mRNA
A; Residues: 1-99 <LIY>
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A; Residues: 'x', 25-99 < ROB>
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A; Residues: 1-99 <BOT
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A; Residues: 1-99 <YO2>
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.J.; Tanaka, S.; Griffin, P.R
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Result
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Maximum Match 100%
Listing first 45 summaries
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  Score
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Query
 May 29, 2001, 13:55:35; Search time 13.82 Seconds (without alignments) 175.987 Million cell updates/sec
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382
1 SIPITCCFNVINRKIPIQRL.....ERWYRDSMKHLDQIFQNLKP 71
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                                                                                                                                                                                                                                                                                                                                                                                                                  93435 seqs, 34255486 residues
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 DB
SY02_CAVPO
SY07_RAT
SY04_CHICK
SY24_HUMAN
SY14_HUMAN
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SY03_HUMAN
SY04_RABIT
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Q16627
P16619
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P51671
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                                                                                                                                                                                                                                                             Description
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                                                                                                                                                                                                                                              P80075 homo sapien
        7 homo sapien
8 homo sapien
9 homo sapien
6 homo sapien
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6 homo sapien
7 homo sapien
7 rattus norv
8 homo sapien
8 mus musculu
                                                                                 1 bos taurus
8 mus musculu
2 oryctolagus
4 rattus norv
2 cavia porce
6 mus musculu
8 rattus norv
5 gallus gall
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mus musculu
cavia porce
homo sapien
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rattus norv
homo sapien
                                                                                                                                                                                                                 homo sapien
bos taurus
homo sapien
                                                                                                                                                                                                  canis famil
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000585 homo sapien	SY21_HUMAN	ب	134	31.8	121.5	5
P13501 homo sapien	SY05_HUMAN	ш	91	31.8	121.5	14
097919 bos taurus	SY05_BOVIN	ш	91	31.8	121.5	ω
P55773 homo sapien	SY23_HUMAN	مسر	120	32.1	122.5	2
Q16663 homo sapien	SY15_HUMAN	μ.	113	32.3	123.5	1
P55774 h small ind	SY18_HUMAN	ب	89	32.3	123.5	0
P97272 cavia porce	SY05_CAVPO	ш	91	32.6	124.5	39
O35188 mus musculu	SYD1_MOUSE	۳	395	32.9	125.5	8
Q9ubd3 homo sapien	SYC2_HUMAN	H	114	33.4	127.5	37
P47992 homo sapien	SYC1_HUMAN	Н	114	33.4	127.5	8
Q9y258 homo sapien	SY26_HUMAN	ш	94	33.4	127.5	5
P10855 mus musculu	SY03_MOUSE	μ.	92	33.5	128	4

# ALIGNMENTS

RESULT

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FEBS Lett. 395:277-282(1996)i- FUNCTION: CHEMOTACTIC FACTOR THAT ATTRACTS MONOCYTES, LYMPHOCYTES,	a	Kim KS., Rajarathnam K., Clark-Lewis I., Sykes B.D.;	MEDLINE=97053697; PubMed=8898111;		J. Exp. Med. 176:59-65(1992).		proteins (MCP-2 and MCP-3) belongin	"Structural and functional identification of two human, tumor-derived	T - D	TISSUE=Osteosarcoma;	SEQUENCE OF 26-99.	[4]	Int. Immunol. 1:388-399(1989).	"Cioning and expression of a gamma-interferon-inducible gene in	E.L.	91207938; PubMed=2518726;	SEQUENCE OF 23-99 FROM N.A.		Biochem. Biophys. Res. Commun. 231:726-730(1997).	numan monocyte cusmicactic protestics. Com croning and regulated	بر 2 1	Ondenakker	Coillio F Froven F Nomivama H Minra D Fiton	MEDITURE 67324430. Dubmod=9070881.	SECOUNCE FROM N.A., AND VARIANT GIN-69.		Genomics 40:323-331(1997).	chromosome 17q11.2.";	gene contig	"The human MCP-2 gene (SCYA8): cloning, sequence analysis, tissue	Midia N.,	COATE TO THE TOTAL NOTE TO THE TOTAL TO THE TOTAL TO THE TOTAL TOTAL TO THE TOTAL TO	SEQUENCE FROM N.A., AND VARIANT GLN-69.		בייוומרפט, כמכתווודווד, ווסווודוודמתכ,	EUKATYOLA; MECAZOA; CHOFGACA; CHANIALA; VEFTEEDFALA; EUCELEOSCOMI; Mammalia: Buthoria: Drimatos: Catarrhini: Hominidao: Homo	Crasiata. West chasts.	SCYAB OR SCYA10 OR MCP2.		IBLE CYTOKINE A8 PRECURSOR	(Rel. 40.	01-DEC-1992 (Rel. 24, Created)	388;	Ë	•

P46632 O55145 P50230

P78423 P14097

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EMBL; Y10802; CAA71760.1; -.
EMBL; Y16645; CAA776341.1; -.
HSSP; P13500; 1DOL.
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                                                       SEQUENCE FROM N.A.
MEDLINE=95091716; PubMed=7999015;
                                                                                                                                                              Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                    01-OCT-1996 (Rel. 34, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
SMALL INDUCIBLE CYTOKINE A8 PRECURSOR (MONOCYTE
(MCP-2) (MONOCYTE CHEMOATTRACTANT PROTEIN 2).
                                                                                                                                                                                                                                                                                                                                                                           SY08_PIG STANDARD;
P49873;
01-OCT-1996 (Rel. 34, Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PROSITE; PS00472; SMALL_CYTOKINES_CC; Cytokine; Chemotaxis; Signal; Heparin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR000827; -.
InterPro; IPR001811; -.
Pfam; PF00048; IL8; 1.
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                                                                                                                                                                                                                Sus scrofa (Pig)
                                                                                                                                                                                                                                              SCYA8 OR MCP2
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                                                                                                                                  NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 HLDQIFQNLKP 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29
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TISSUE SPECIFICITY: HIGHEST EXPRESSION FOUND IN THE SMALL INVESTINE AND PERIPHERAL BLOOD CELLS. INVERMEDIATE LEVELS SEEN IN THE HEART, PLACEMYA, LUNG, SKELETAL MUSCLE, THYMUS, COLON, OVARY, SPINAL CORD AND PANCREAS. LOW LEVELS SEEN IN THE BRAIN, LIVER,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N
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     K.K., Knoke I.I., Klaudiny J.J.,
K.K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
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                                                                                                                                                                                         Chordata; Craniata; Vertebrata;
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BY SIMILARITY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 382; DB 1;
Pred. No. 5.3e-38;
; Mismatches 0;
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9D67976BB9422F2A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
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Heparin-binding; Inflammatory response;
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                              Wempe
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                              F.F.,
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                                 Wuttke W.W.,
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RESULT
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DISULFID
SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                              EOTA_HUMAN STANDARD: PRT; 97 AA
P51671; P50877; 092490; 092491;
01-0CT-1996 (Rel. 34, Created)
01-0CT-1996 (Rel. 34, Last sequence update)
01-0CT-2000 (Rel. 40, Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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MEDLINE=96189937; PubMed=8609214;
Ponath P.D., Qin S., Ringler D.J., Clark-Lewis I., Wang J.,
Smith H., Shi X., Gonzalo J.A., Newman W., Gutierrez-Ramos (
                                                                                                   "Human eotaxin is a specific provides a new mechanism to e Nat. Med. 2:449-456(1996).
                                                                                                                                                             Luster A.D.;
                                                                                                                                                                                  Garcia-Zepeda E.A.,
                                                                                                                                                                                                    SEQUENCE FROM N.A. MEDLINE=96181758; PubMed=8597956;
                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HUMAN
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                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .89 LLDQKSQTPKP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 HLDQIFQNLKP
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SUBGNIT: MONOMER OR HOMODIMER; IN EQUILIBRIUM (BY
SIMILARITY: BELONGS TO THE INTERCRINE BETA FAMILY
'C-C) (CHEMOKINE CC).
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European Bioinformatics Institute.
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PF00048; IL8; 1.
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P80098; 1NCV.
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50; Conserv
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75
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BY SIMILARITY.

SMALL INDUCIBLE CYTOKINE A8.

PYRROLIDONE CARBOXYLIC ACID (BY
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BY SIMILARITY.
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O; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       D3DAA0F7A964CDB1 CRC64
                                                                                                                                                                                  M.E., Ownbey T.R.,
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No. 2
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OM protein - protein search, using sw model
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Maximum Match 100%
Listing first 45 summaries
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1: sp_archea:*
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3: sp_fungi:*
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382
1 SIPITCCFNVINRKI
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Gapop 10.0 , Gapext 0.5
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                                                                sp_organelle:*
sp_phage:*
: sp_plant:*
sp_rodent:*
sp_unclassified:*
sp_vertebrate:*
sp_virus:*
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sp_invertebrate:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIE	
0,	

Result No.	Score	% Query Match 1	Length	DB	ij	Description
1	255	66.8	99	6	Q9MYN4	Q9myn4 macaca fasc
2	243	63.6	76	4	Q9UDF3	Q9udf3 homo sapien
w	234	61.3	95	11	Q9QYD6	Q9qyd6 mus musculu
4	233	61.0	100	σ	Q9TTQ4	Q9ttq4 equus cabal
υ	224	58.6	97	σ	Q9TTS6	Q9tts6 bos taurus
6	220	57.6	97	11	Q9Z121	Q9z121 mus musculu
7	219	57.3	99	6	Q9TTQ3	Q9ttq3 equus cabal
8	218	57.1	81	δ	Q9TTQ2	Q9ttq2 equus cabal
9	211.5	55.4	79	4	095689	095689 homo sapien
10	207	54.2	148	11	Q9QYD7	Q9qyd7 mus musculu
11	206.5	54.1	97	11	Q9Z318	Q9z318 cavia porce
12	173	45.3	62	4	095690	095690 homo sapien
13	170	44.5	106	11	Q9Z292	Q9z292 cricetulus
14	164.5	43.1	75	9	Q9TTQ1	Q9ttq1 equus cabal
15	153.5	40.2	90	13	Q9PWA6	Q9pwa6 gallus gall
16	151	39.5	119	11	Q9JKC0	Q9jkc0 mus musculu
17	146.5	38.4	80	4	Q14745	Q14745 homo sapien
18	135.5	35.5	95	14	Q98158	Q98158 kaposi's sa
19	127.5	33.4	114	4	Q9UBD3	Q9ubd3 homo sapien

<b>4</b> О	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
81	82.5	83	85.5	85.5	85.5	87	88	88.5	91.5	91.5	96.5	97.5	97.5	97.5	99.5	100.5	100.5	101.5	104.5	107.5	119	121.5	123.5	126.5	126.5
21.2	21.6	21.7	22.4	22.4	22.4	22.8	23.0	23.2	24.0	24.0	25.3	25.5	25.5	25.5	26.0	26.3	26.3	26.6	27.4	28.1	31.2	31.8	32.3	33.1	33.1
101	81	120	203	142	134	76	93	92	100	100	100	100	100	100	100	118	115	100	101	97	89	91	113	131	93
6	11	14	14	14	14	11	13	11	13	13	13	13	13	13	13	14	14	13	13	13	13	4	4	11	11
Q9XSX5	Q9QZU1	Q9J5A6	Q67634	Q91BJ7	Q9YVA9	Q9QUR9	Q9PTF8	Q9QZU2	Q9PT04	Q9PTS3	Q9PTS4	Q9PT06	Q9PT07	Q9W691	Q9PT03	Q9J2M1	Q9WRT7	Q9PT05	093238	057411	Q918E0	Q9NYA2	Q9UM74	Q9R043	Q9WUZ6
Q9xsx5 tells silve	-		_	Q9ibj7 turkey herp	gallid	mus mus	bra		Q9pt04 oncorhynchu			-		•				Q9pt05 oncorhynchu		,	gallus	-3	homo	3 mus	Q9wuz6 mus musculu

# ALIGNMENTS

Оу	Query Best Matcl		טיט	R R R			RT A		R O O					SUL
3 PITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMKHL  :   :      :              : :           :  :	/ Match Local Similarity 65.2%; nes 45; Conservative	1899.1; 7756.1; 1007 MW;	the	Studer C., Urfer R.; "Cloning and expression of rhesus	SEQUENCE FROM N.A.	itted (JUN-2000) to the	"Cloning and expression of cync	SEQUENCE FROM N.A. SPECIES=M.fascicularis;	Cercopithecinae; Macaca. NCBI_TaxID=9541, 9544; [1]	data; ates;	Macaca mulatta (Rhesus macaque).		01-0CT-2000 (TIEMBLIFE: 13, Creat 01-0CT-2000 (TIEMBLIFE: 15, Last 01-0CT-2000 (TIEMBLIFE: 15, Last	9MYN4 PRELIMINARY;
NIQCPKEAVIFK : :         SSKCPKEAVIFK	Score 255; DB Pred. No. 1.1e 10; Mismatches	433CB88C64EE7A4F CRC64;	GenBank,	monkey		EMBL/GenBank/DDBJ	omolgus monk			raniata; Ven Catarrhini; (	ig macaque)	N	Last sequence update) Last annotation update)	PRT; 99 AA
IKRGKEVCADPKERWVRDSMKHL 62     :    ::  :         IVAKEICADPKOKWVQDSMDHL 90	DB 6; Length 99; 1.1e-21; hes 14; Indels 0; Gaps	7A4F CRC64;	data	monocyte chemoattractant		OBJ databases.	cynomolgus monkey chemoattractant protein-			Craniata; Vertebrata; EuteleoStomi; Catarrhini; Cercopithecidae;	(cynomotique mouncy), and		ıpdate) ı update)	

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63

DQIFQNLKP

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Q9UDF3;
01-MAX-2000 (TrEMBLrel. 13, Cr
01-MAX-2000 (TrEMBLrel. 13, Lr
01-MAX-2000 (TrEMBLrel. 15, L
                                                                                                                                                                                               [1]
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
STRAIN=SSL/J; TISSUE=SPLEEN;
MEDLINE=99370037; PubMed=10438970;
Menacher C., Butterfield R.J., Ma R.Z.,
                                                                      "Sequence polymorphisms in the chemokines Scyal (TCA-3), Scya2 (monocyte chemoattractant protein (MCP)-1), and Scyal2 (MCP-5) are candidates for eae7, a locus controlling susceptibility to monophasic remitting/nonrelapsing experimental allergic encephalomyelitis.";
J. Immunol. 163:2262-2266(1999).
                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-MAY-2000 (TYEMBLIFEL 13, 01-MAY-2000 (TYEMBLIFEL 13, 101-OCT-2000 (TYEMBLIFEL 15, I SMALL INDUCIBLE CYTOKINE A12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Rollins B.J., Morton C.C., Ledbetter D.H., Eddy R.L.Jr., Shows T.B. "Assignment of the human small inducible cytokine A2 gene, SCYA2 (encoding JE or MCP-1), to 17q11.2-12: evolutionary relatedness of cytokines clustered at the same locus."; Genomics 10:489-492(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INTERPRO: IPRO01811; -.
PFAM; PF00048; ILB; 1.
PROSITE; PS00472; SMALL_CYTOKINES_CC; 1.
SEQUENCE 76 AA; 8701 MW; 15D1ECAD82BCF075 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. MEDLINE=91301709; PubMed=2071154;
                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SCYA12
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                                     AF065938; AAF15388.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PVTCCYNFTNRKISVQRLASYRRITSSKCPKEAVIFKTIVAKEICSDPKQKWVQDSMDHL
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63.2%;
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PRECURSOR.
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Pred. No. 1.8e-20;
1; Mismatches 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MCP-1/JE.
                                                                                                                                                                                                                                                                                                                                                                                      Craniata; Ver
Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              95
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                                                                                                                                                                                                                            Zachary J.F.,
                                                                                                                                                                                                                                                                                                                                                                                                            Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ΑA
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                                                                                                                                                                                                                                                                                                                                                                                      Muridae;
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                                                                                                                                                                                                                                                                                                                                                                                      Murinae; Mus
                                                                                                                                                                                                                            Doerge R.W.,
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RESULT
Q9TTQ4
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SQ
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Matches
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Best Local
                                        Q9TTS6
Q9TTS6;
Q9TTS6;
01-MAY-2000
01-MAY-2000
01-OCT-2000
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Q9TTQ4;
Q9TTQ4;
01-MAY-2000 (TrEMBLrel. 1
01-MAY-2000 (TrEMBLrel. 1
01-CCT-2000 (TrEMBLrel. 1
   Eukaryota;
Mammalia;
                      Bos taurus (Bovine).
                                 EOTAXIN.
                                                                                                                                                                                                                                                                                        Signal.
                                                                                                                                                                                                                                                                                                                                                             Benarafa C., Hamblin A.S., Cunningham F.M., Collins M.E. "Cloning Equine CC chemokines."; "Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases. EMBL; AJ251188; CAB61624.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INTERPRO; IPR000827; -.
INTERPRO; IPR001811; -.
PFAM; PF00048; IL8; 1.
PROSITE; PS00472; SNALL_CYTOKINES_CG; 1.
SROUENCE 95 AA; 10727 MW; 9DB56B0297
                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                 CHAIN
                                                                                                                                                                                                                                                                                                             PROSITE;
                                                                                                                                                                                                                                                                                                                         PFAM;
                                                                                                                                                                                                                                                                                                                                  INTERPRO;
                                                                                                                                                                                                                                                                                                                                          INTERPRO;
                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9796;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Equus caballus (Horse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EOTAXIN PRECURSOR.
                                                                                                                                                       61
                                                                                                                                                                                                                   y Match 61.0%;
Local Similarity 60.9%;
hes 39; Conservative
                                                                                                                                     87 YLDE
                                                                                                                                                                           27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88 HLDK 91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 HLDQ 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28 STPVTCCYNVVKQKIHVRKLKSYRRITSSQCPREAVIFRTILDKEICADPKEKWVKNSIN 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 SIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                      σı
                                                                                                                                                       HLDQ
                                                                                                                                                                           SIPITCCENVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWVRDSMK 60
                                                                                                                                                                                                                                                                                                                        PF00048;
                                                                                                                                                                                                                                                                                                                                                      P51671;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                            PS00472; SMALL_CYTOKINES_CC;
   Eutheria;
                                                                                                                                                                                                                                                                                                                      IPR000827; -.
IPR001811; -.
10048; IL8; 1.
                                                                                                                                     90
                                                                                                                                                        64
                                                                                                                                                                                                                                                                      100 AA;
                                         (TrEMBLrel.
                                                   (TrEMBLrel. (TrEMBLrel.
                                                                                  PRELIMINARY;
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Chordata; Craniata; Vertebrata; Cetartiodactyla; Ruminantia; Pec
                                                                                                                                                                                                                                                                      11247 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                  Chordata; Craniata; Vertebrata; Perissodactyla; Equidae; Equus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61'.3%;
59.4%;
                                        13,
13,
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13,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17;
                                                                                                                                                                                                                 Score 233; DB 6; pred. No. 3.3e-19; 9;
                                                                                                                                                                                                                    16;
                                         Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Last sequence update)
Last annotation updat
                                                            Created)
                                                    Last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
                                                                                                                                                                                                                                                                              EOTAXIN
                                                                                                                                                                                                                                                                                        POTENTIAL.
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Pred. No. 2.4e-19;
                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9DB56B029729D0B0 CRC64;
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                                                  sequence update)
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                                        update)
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                                                                                                                                                                                                                                      Length 100
 Pecora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 95;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
          Euteleostomi;
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 Bovoidea;
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